1AP15 Rec'd PCT/PTO 28 JUL 2006

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005)

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

14321.90 U.S. APPLICATION NO. (4 km) own, see 27 CFR 1.5)

(CON	ICERNING A SUBMIS	SION UNDER 35 U.S.C. 371	897,307,010			
INTE		TONAL APPLICATION NO. PCT/JP2005/001599	INTERNATIONAL FILING DATE February 3, 2005	PRIORITY DATE CLAIMED February 3, 2004			
		INVENTION CHE PHOTODIODE					
Tada		IT(S) FOR DO/EO/US ibashi Yukihiro Hirota o					
Appli	cant h	erewith submits to the United Stat	es Designated/Elected Office (DO/EO/US) the	ne following items and other information:			
1.	\boxtimes	This is a FIRST submission of ite	ems concerning a submission under 35 U.S.	C. 371.			
2.		This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.					
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.					
4.	\boxtimes	The US has been elected (Article	e 31).				
5.	\boxtimes	A copy of the International Appli	cation as filed (35 U.S.C. 371 (c)(2))				
		a. is attached hereto (req	uired only if not communicated by the Intern	ational Bureau).			
		b. 🛛 has been communicate	ed by the International Bureau.				
	_	•	application was filed in the United States Rec				
6.	\bowtie	_	of the International Application as filed (35 U	.S.C. 371(c)(2)).			
		a. 🛛 is attached hereto.	1 - 27 - 1 - 1 - 25 11 2 2 45 (1) (1)				
_	K721	•	bmitted under 35 U.S.C. 154(d)(4).	40 (05 11.0 0, 074 (-)(0))			
7.	\boxtimes	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))					
		a.					
		 b. · □ have been communicated by the International Bureau. c. □ have not been made; however, the time limit for making such amendments has NOT expired. 					
		d. A have not been made a		unions has No Feather.			
8.				Article 19 (35 U.S.C. 371(c)(3)).			
9.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).					
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).					
11.		A copy of the International Prelin	ninary Examination Report (PCT/IPEA/409).				
12.	\boxtimes	A copy of the International Search	ch Report (PCT/ISA/210).				
It	ems 1	13 to 23 below concern docume	nt(s) or information included:				
13.	\boxtimes	An Information Disclosure State	ment under 37 CFR 1.97 and 1.98.				
14.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
15.		A FIRST preliminary amendment.					
16.		A SECOND or SUBSEQUENT preliminary amendment.					
17.		A substitute specification.					
18.		A power of attorney and/or change of address letter.					
19.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.					
20.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
21.		A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).					
22.	ĸΝ	Express Mail Label No. E	V 825 902 572 US				

AP20 Rec'd PCT/PTO 28 JUL 2006
PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ared to respond to a collection of information unless it displays a valid OMB control number.

2.7

U.S. APPLIA	M58784	37 8 FR 1.5)	INTERNATIONAL	APPL	ICATION NO.	ATTORNEY'S DOCKET NUMBER 14321.90		
PCT/JP2005/001599 14321.90 23. Other items or information: postcard Application Data Sheet								
The follow	ing fees have been	submitted:				CALCULATIONS	PTO USE	
	•				\$300	\$ \$300.00		
25. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article All other situations. \$200						\$ \$200.00		
26. Search fee (37 CFR 1.492(b)) If the written opinion fthe ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority\$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB\$400 All other situations\$500						\$ \$400.00		
тот	AL OF 24, 25 and	26 =				\$ \$900.00		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or RATE								
400				of (round up to a whole				
- 100		0 x \$250.00						
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).						\$		
CLAIMS	NUMBER F	ILED	NUMBER EXTRA		RATE			
Total claims	3	- 20 =	0	x	\$50.00	\$ \$0.00		
Independent cl	aims 1	- 3=	0	x	\$200.00	\$ \$0.00		
MULTIPLE DEPENDENT CLAIMS (if applicable) ☐ + \$360.00						\$ \$0.00		
TOTAL OF ABOVE CALCULATIONS =						\$ \$900.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						\$ \$0.00		
SUBTOTAL =						\$ \$900.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$ \$0.00		
TOTAL NATIONAL FEE =						\$ \$900.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +					\$ \$0.00			
TOTAL FEES ENCLOSED =					\$ \$900.00			
					Amount to be	\$		
						Amount to be	s	

Approved for use through 3/31/2007, OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

a.		A check in the amount of \$ to cover to	ne abbye jeo	Grasio	PCT/PTO 28 JUL 2000				
b.		Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed.	in the amo	ount of \$	to cover the above fees.				
C.	\boxtimes	The Commissioner is hereby authorized to charge any ad to Deposit Account No. <u>23-3178</u> . A duplicate		vhich may be sheet is enclos					
d.	\boxtimes	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO:									
W	ORK	MAN NYDEGGER -		SIGNATURE					
		000013		Dana L. Tangren					
022913				NAME					
PATENT TRADEMARK OFFICE CUSTOMER NO.				37,246					
				REGISTRATION NUMBER					
				July 28, 2006					
				DATE					

JAP20 Rec'd PCT/PTO 28 JUL 2006

1	CERTIFICATE (Docket No.							
	Applicant(s) Tadas Ishibashi, Seigo Ando, and Yukihiro Hirota Spianto A Lang Date Confirmation No. Customer No. Exar						14321.90		
	/Spianyo.O . Ung Date		Confirmation No. Customer No. 022913		Examiner Grou		Group Art Unit		
	Invention: AVALANCHE PHOTODIODE								

I hereby certify that the following are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Mail Stop: PCT, Commissioner for Patents, PO Box 1450, Arlington, Virginia 22313-1450.

DATED this 28th day of July 2006.

- Transmittal Letter concerning filing under 35 USC § 371 (3 pages) (in duplicate)
- A copy of PCT/JP2005/001599
- Application Data Sheet (4 pages)
- English translation of PCT/JP2005/001599 with Verification of Translation (27 pages)
- Drawings (6 pages)
- Copy of International Search Report (4 pages)
- Form PTO-2038 submitting Credit Card Payment in the amount of \$900
- Transmittal for Information Disclosure Statement (3 pages)
- Information Disclosure Statement (3 pages)
- Form PTO-1449 listing 5 references (2 pages)
- Copy of 4 Non-US references
- Postcard

DANA L. TANGREN

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence

EV 825 902 572 US

("Express Mail" Mailing Label Number)

W:\14321\90\DFW0000019267V001.doc

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE JUL 2006

In re International Application of

Tadao ISHIBASHI et al

International Application No.:

PCT/JP2005/001599

International filing date:

February 3, 2005

For: AVALANCHE PHOTODIODE

VERIFICATION OF TRANSLATION

Honorable Commissioner of Patent and Trademark Washington, D.C. 20231 Sir:

Chikao NAGASAKA residing at c/o TANI & ABE, No. 6-20, Akasaka 2-chome, Minato-ku, Tokyo 107-0052, Japan, declares:

- (1) that he knows well both the Japanese and English languages;
- (2) that he translated the claims of the above-identified International Application from Japanese to English;
- (3) that the attached English translation is a true and correct translation of the claims, specification and drawings of the above-identified International Application to the best of his knowledge and belief; and
- (4) that all statements made of his own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 USC 1001, and that such false statements may jeopardize the validity of the application or any patent issuing thereon.

July 25, 2006

Chilao Nagasaha
Chikao NAGASAKA

Date